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(71) **Applicant** (for all designated States except US): **HENKEL CORPORATION** [US/US]; 1001 Trout Brook Crossing, Rocky Hill, Connecticut 06067 (US).

(72) **Inventors; and**

(75) **Inventors/Applicants** (for US only): **CHAN, Bruce, C. B.**, [US/US]; 14651 Clearbrook Drive, Chino Hills, California 91709 (US). **TODD, Michael, George**, [US/US]; 6999 Rutgers Drive, Anaheim Hills, California 92807 (US). **EDWARDS, Maurice, Earl**, [US/US]; 3431 Casco Court, Hacienda Heights, California 91745 (US).

(74) **Agents:** **CUNNINGHAM, Marina, E.**, et al.; McCormick, Paulding & Huber LLP, 185 Asylum Street, CityPlace II, Hartford, Connecticut 06103-3402 (US).

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(54) **Title:** METHODS FOR IMPROVING THE FLUX COMPATIBILITY OF UNDERFILL FORMULATIONS

(57) **Abstract:** In accordance with the present invention, it has been discovered that the addition of one or more cationic catalyst(s), such as onium salts as defined herein, provides improved flux compatibility of underfill formulations in the presence of flux, flux residues and/or reaction products thereof. Accordingly, there are provided methods for improving the flux compatibility of underfill formulations in the presence of flux, flux residues and/or reaction products thereof. In accordance with another embodiment of the present invention, there are provided methods for improving HAST performance of underfill formulations, especially in the presence of flux, flux residues and/or reaction products thereof. In accordance with another embodiment of the present invention, there are provided methods for preparing underfill formulations having improved flux compatibility, especially in the presence of flux, flux residues and/or reaction products thereof. In yet another embodiment of the present invention, there are provided methods for adhesively attaching and/or encapsulating electronic components, especially in the presence of flux, flux residues and/or reaction products thereof. In a further embodiment of the present invention, there are provided articles produced by the above-described processes.

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